

AMENDMENTS TO THE CLAIMS

Please add Claim 18.

Please cancel Claim 2.

Please amend Claims 1, 5, 7, 12, and 14 as follows:

1. (Currently Amended) A compact magnetic induction switch, comprising:
  - a switch case (1);
  - a movable member (2) provided on an opening (1D) of the switch case (1) and being reciprocally movable;
  - an elastic body (3) which is installed inside the switch case (1) and urges an end portion of the movable member (2) so as to be protruded outside of the switch case (1);
  - a magnet (6) fixed to the movable member (2); ~~and~~
  - a ~~hole~~ Hall IC (4) for detecting change of magnetic field caused by movement of the movable member (2) with its operating point (4a)[[.]] ;
  - wherein if the magnet field applied to the operating point (4a) of the ~~hole~~ Hall IC becomes above or below a threshold by movement of the movable member (2), output signal of the ~~hole~~ Hall IC (4) switches on/off[[.]] ; ~~and~~
  - wherein the magnetic field threshold from an OFF state to an ON state is higher than the magnetic field threshold from an ON state to an OFF state.
2. (Canceled)
3. (Original) The compact magnetic induction switch according to claim 1, wherein a

positioning portion for guiding the movable member is provided within the switch case.

4. (Original) The compact magnetic induction switch according to claim 1, wherein a guide portion for guiding the movable member is provided within the switch case.

5. (Currently Amended) The compact magnetic induction switch according to claim 1, wherein the switch has a lid member to be fitted to a bottom of the switch case and the opening for deriving a lead wire of the ~~hole~~ Hall IC and an opening for injecting a filler are provided on the lid member.

6. (Original) The magnetic switch of Claim 1, wherein said switch case, said movable member and said base member comprise a synthetic resin.

7. (Currently Amended) The magnetic switch of Claim 1, said switch case including a deriving hole providing a path for an output wire connected to said ~~hole~~ Hall IC.

8. (Original) The magnetic switch of Claim 1, including a lid member for fitting to a bottom of said switch case, said lid member including a take out hole providing a path through said lid member for said output wire and an injection hole.

9. (Original) The magnetic switch of Claim 8, including silicon resin injected through said injection hole, said silicon resin sealing the bottom of said switch case.

10. (Original) The magnetic switch of Claim 1, wherein said switch case includes an engaging hole.
11. (Original) The magnetic switch of Claim 10, including a mounting bracket for mounting said switch to a desired member, said mounting bracket including a first side including an engaging portion for engagement with said engaging hole and said mounting bracket including a second side having an opening portion for receiving the end portion of said movable member projecting outwardly of said switch case.
12. (Currently Amended) The magnetic switch of Claim 1, wherein when the end portion of said movable member projects outwardly of said switch case the ~~hole~~ Hall IC outputs an OFF signal and when the end portion of said movable member is depressed and moves inwardly the ~~hole~~ Hall IC outputs an ON signal.
13. (Original) The magnetic switch of Claim 12, wherein an operating force of about one gram depresses said movable member and outputs an ON signal.
14. (Currently Amended) The magnetic switch of Claim 1, wherein when the end portion of said movable member projects outwardly of said switch case the ~~hole~~ Hall IC outputs an ON signal and when the end portion of said movable member is depressed and moves inwardly the ~~hole~~ Hall IC outputs an OFF signal.
15. (Original) The magnetic switch of Claim 14, wherein an operating force of about

one gram depresses said movable member and outputs an OFF signal.

16. (Original) The magnetic switch of Claim 1, wherein said end portion of said movable member extends from and is integral with part of a top end section of said movable member so that part of said top end section of said movable member contacts the switch housing to retain said movable member in said switch housing when said end portion projects outwardly of said switch case.

17. (Original) The magnetic switch of Claim 1, wherein said magnet comprises a permanent magnet.

18. (New) A compact magnetic induction switch, comprising:  
a switch case (1);  
a movable member (2) provided on an opening (1D) of the switch case (1) and being reciprocally movable;  
an elastic body (3) which is installed inside the switch case (1) and urges an end portion of the movable member (2) so as to be protruded outside of the switch case (1);  
a magnet (6) fixed to the movable member (2);  
a Hall IC (4) for detecting change of magnetic field caused by movement of the movable member (2) with its operating point (4a);  
wherein if the magnet field applied to the operating point (4a) of the Hall IC becomes above or below a threshold by movement of the movable member (2), output signal of the Hall IC (4) switches on/off;

wherein said switch case includes an engaging hole; and  
a mounting bracket for mounting said switch to a desired member, said mounting bracket including a first side including an engaging portion for engagement with said engaging hole and said mounting bracket including a second side having an opening portion for receiving the end portion of said movable member projecting outwardly of said switch case.